

## Status and Plans for IMERG on the Verge of Version 07

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The next version (V07) of the Integrated Multi-satellitE Retrievals for the Global Precipitation Measurement (GPM) mission (IMERG) is slated to be in processing by meeting time. V07 will be the second version that includes data from both the Tropical Rainfall Measuring Mission (TRMM) and GPM projects, combined into a single, uniformly processed record. This presentation will show several examples of improvements from the current V06 to V07. For example, the V06 IMERG near-real-time products (Early and Late Runs) show regional biases because they do not have climatological calibration (as mistakenly said in the documentation), and this will be done in V07. As well, the time series across the transition from TRMM to GPM Core Observatory calibration at the start of June 2014 has been revisited. A third issue is that the Kalman filter used in IMERG a) introduces a variable amount of smoothing, and b) depends on relatively simple measures of input data quality. This insight has led to a regional adjustment to the distribution of the precipitation estimates that should improve their coverage, time series, and extreme values. In another initiative, the IMERG team worked with a user to develop the Histogram Anomaly Time Series analysis, providing a simple summary of the time series of anomalies in the distribution of precipitation rates over a region, and revealing natural and input-based variations in precipitation.

We will report the status of IMERG Version 07 processing as of the conference time, and provide some examples of the changes in algorithm performance between Versions 06 and 07.